

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF WEST NURSERY ROAD AND SOUTHBOUND MD 295 OFF-RAMP IN ANNE ARUNDEL COUNTY. THE WORK WILL CONSIST OF REPLACING THE POLE AND MAST ARM IN THE NORTH WEST CORNER OF THE INTERSECTION. WEST NURSERY ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH A LAG EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND WEST NURSERY ROAD. THE INTERSECTION OPERATION WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9571	51 SF	ALUMINUM SHEET
		2 EACH - R3-1 SIGN (24" X 24") - MAST ARM MOUNT
		1 EACH - R3-5(L) SIGN (30" X 36") - MAST ARM MOUNT
		1 EACH - R3-6(L) SIGN (30" X 36") - MAST ARM MOUNT
		2 EACH - R3-5(R) SIGN (30" X 36") - MAST ARM MOUNT
		1 EACH - D3-1 SIGN (VAR" X 16") - MAST ARM MOUNT
2 EA		27 FT. STEEL POLE WITH 50 FT. MAST ARM

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
8011	14 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	3 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8039	2 EA	INSTALL STEEL POLE AND SINGLE MAST ARM
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8051	20 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	10 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	260 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8075	51 SF	INSTALL OVERHEAD SIGN
8080	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8084	60 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	880 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
		NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIM TRANS
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

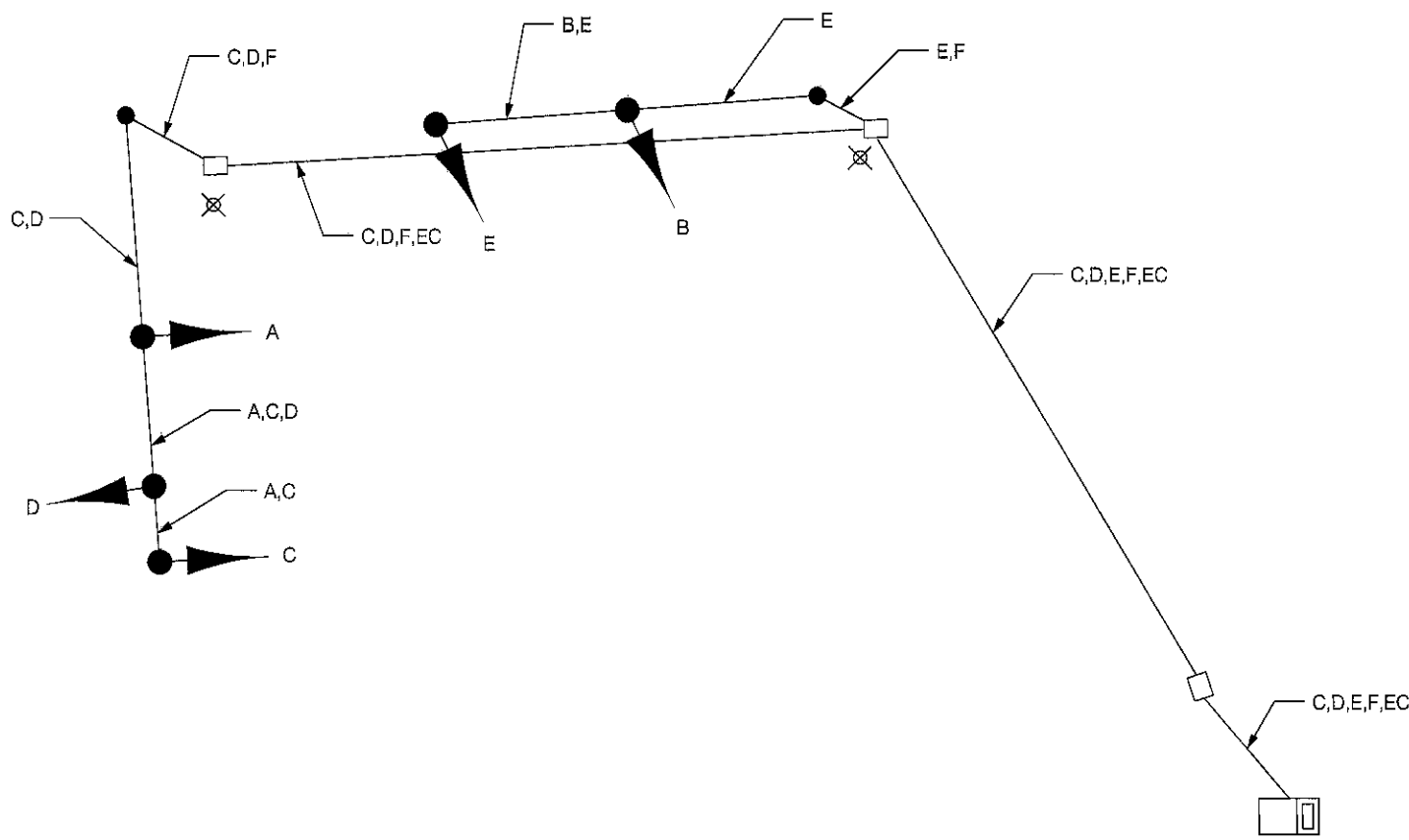
MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7682

PHASING CHART

	1	2	3	4	5	6	7	
PHASE 2 & 6	G	G	G	G	G	R	R	←
2 & 6 CHANGE	G	G	Y	Y	Y	R	R	→
PHASE 1 & 6			G	R	R	R	R	→
1 & 6 CHANGE			G	R	R	R	R	→
PHASE 4	R	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	R	Y	Y	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	←

WIRING DIAGRAM



WIRING KEY

A-B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C-E	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
F	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EC	EXISTING CABLE
X	GROUND ROD

TRAFFIC **C**ONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

m:\1000\02-1039\42 w. nursery road Jul. 09, 2004 10:30:47

SHA #: 23853TR009252 TSD #: K40054-52

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET WEST NURSERY ROAD AND S.B. MD 295 RAMP LINTHICUM, MARYLAND			
DRAWN BY:	M. HOWELL	F.A.P. NO.	TS NO.
CHECKED BY:	T. ZAYDEL	S.H.A. NO.	2177 C
SCALE:	NONE	COUNTY:	T.I.M.S. NO.
DATE:	JUL 1, 2004	LOG MILE:	G446
			2 OF 2